## INTERNATIONAL SEARCH REPORT

PCT/US\_004/000012

A. CLASSII IPC 7	FICATION OF SUBJECT MATTER C09C1/02 D21H19/38								
According to International Potent Classification (IDC) as to both policy of the United States and the States an									
According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED									
	cumentation searched (classification system followed by classification	n symbols)							
IPC 7 CO9C D21H									
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
Electronic d	ata base consulted during the international search (name of data bas	e and, where practical, search terms used)							
EPO-In	ternal, WPI Data	•							
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	ENTS CONSIDERED TO BE RELEVANT		Deleverate place Ala						
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.						
х	US 5 653 795 A (BROWN ALAN J)		1-74						
	5 August 1997 (1997-08-05) column 1, line 11 - line 29								
	column 2, line 7 - column 5, line	11							
x	US 5 676 747 A (BROWN ALAN J)		1						
,	14 October 1997 (1997-10-14)								
	column 1, line 10 - line 19	. 11							
	column 2, line 8 - column 4, line column 4, line 48 - column 9, lin	e 52;	. <b>.</b>						
	claims 1-3,19,24-26,29-31								
Α	EP 0 045 562 A (CALGON CORP)	-	1						
	10 February 1982 (1982-02-10) the whole document	·							
<u>.</u>									
A	EP 0 281 134 A (MD PAPIER GMBH) 7 September 1988 (1988-09-07)		1,16,33, 44,50,57						
	the whole document		44,50,57						
Further documents are listed in the continuation of box C.  X Patent family members are listed in annex.									
•	stegories of cited documents :	"T" later document published after the Inter or priority date and not in conflict with	the application but						
considered to be of particular relevance									
"E" earlier document but published on or after the international filing date  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to									
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "Involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the									
O" document referring to an oral disclosure, use, exhibition or other means document is combined with one or more other such document of the combination being obvious to a person skilled									
"P" docume later ti	"P" document published prior to the international filing date but in the art. later than the priority date claimed "&" document member of the same patent family								
Date of the	Date of the actual completion of the international search  Date of malling of the international search report								
7	July 2004	14/07/2004							
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  Authorized officer									
NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016  Siebel, E									
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on patent family members

Internatio	plication No				
PCT/US2004/000012					

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5653795	A	05-08-1997	AU WO	5376396 A 9632449 A1	30-10-1996 17-10-1996
US 5676747	Α	14-10-1997	AU WO	5324896 A 9632448 A1	30-10-1996 17-10-1996
EP 0045562	A	10-02-1982	AU DK EP ES FI GR JP PT	7191981 A 286381 A 0045562 A2 8203942 A1 811901 A 75704 A1 57048340 A 73254 A	07-01-1982 31-12-1981 10-02-1982 16-07-1982 31-12-1981 02-08-1984 19-03-1982 01-07-1981
EP 0281134	A	07-09-1988	DE AT DE EP ES FI JP	3707221 A1 72575 T 3868331 D1 0281134 A2 2028152 T3 881014 A ,B, 63235377 A	15-09-1988 15-02-1992 26-03-1992 07-09-1988 01-07-1992 07-09-1988 30-09-1988